

Evaluation of PCB congeners in fish tissue

From Rice 1997

PCB congener concentration in small mouth bass tissue  
ug/kg %

PCB	PH Interferences	Dioxin-like?	Percent in		RM3		RM4		RM5		RM6		RM7		RM 7 (10)		RM8 SIL		RM8		RM9	
			Canadian Milk	Monkey Mixture	ug/kg	%	ug/kg	%	ug/kg	%	ug/kg	%	ug/kg	%								
52			1	1.5	41	9.9%	20.5	7.4%	12.1	6.3%	4.35	2.4%	12.96	4.9%	1.7	3.3%	10.713	0.7%	10.5	3.1%	18.2	5.0%
66			2	2.9	53.2	12.8%	20	7.2%	10.4	5.4%	5.9	3.3%	11.23	4.3%	1.8	3.5%	7.37	0.5%	11.5	3.4%	19.5	5.4%
74	+ 61, 70, 76		8.8	10.4	50.4	12.2%	23	8.3%	13.8	7.2%	6.87	3.8%	11.22	4.3%	1.8	3.5%	7.46	0.5%	10.9	3.2%	22.5	6.2%
105		c	3	4.4	20	4.8%	9.22	3.3%	9.22	4.8%	4.43	2.5%	6.86	2.6%	1.1	2.1%	7.0167	0.4%	7.87	2.3%	15.3	4.2%
118		c	10.3	12.8	51.1	12.3%	33.8	12.2%	23.4	12.2%	14	7.8%	20.2	7.7%	3.4	6.5%	40.5	2.5%	23.3	6.8%	42.6	11.7%
138	+ 129, 160, 163		14.8	17.5	62.4	15.1%	49.7	17.9%	36	18.8%	36.5	20.4%	46.27	17.6%	9.1	17.5%	348.67	21.4%	66.3	19.4%	72.6	20.0%
153	+ 168		15.1	18.6	65.4	15.8%	55.2	19.9%	38.7	20.2%	42.1	23.5%	60.93	23.1%	12.5	24.0%	446	27.3%	83.9	24.5%	77	21.2%
156		c	3.3	4.7	4.47	1.1%	4.04	1.5%	3.31	1.7%	2.53	1.4%	3.873	1.5%	0.8	1.5%	20.9	1.3%	5.51	1.6%	6.7	1.8%
157		c	1	1.5	0.899	0.2%	0.79	0.3%	0.651	0.3%	0.426	0.2%	0.535	0.2%	0.1	0.2%	1.394	0.1%	0.715	0.2%	1.26	0.3%
180	+ 193		10.3	12.8	30.8	7.4%	30.7	11.0%	22.7	11.8%	32.6	18.2%	45.9	17.4%	10.2	19.6%	371.33	22.8%	61.4	17.9%	44.1	12.1%
183	+ 185		1.8	2.3	9.18	2.2%	8.09	2.9%	6.11	3.2%	6.67	3.7%	11.51	4.4%	2.6	5.0%	107.23	6.6%	16.3	4.8%	11.3	3.1%
187			3.8	4.7	18.7	4.5%	15.5	5.6%	9.98	5.2%	16.2	9.0%	21.17	8.0%	4.3	8.3%	173	10.6%	27.5	8.0%	21.9	6.0%
189		c	0.3	0.5	0.369	0.1%	0.37	0.1%	0.279	0.1%	0.317	0.2%	0.6	0.2%	0.1	0.2%	5.12	0.3%	0.76	0.2%	0.533	0.1%
194			2	2.9	3.37	0.8%	3.71	1.3%	2.64	1.4%	3.55	2.0%	5.953	2.3%	1.4	2.7%	53.367	3.3%	8.47	2.5%	5.49	1.5%
203			1.8	2.3	2.97	0.7%	3.18	1.1%	2.34	1.2%	2.66	1.5%	4.25	1.6%	1.1	2.1%	32.067	2.0%	7.35	2.1%	4.07	1.1%
<b>Total</b>			<b>79</b>	<b>100</b>	<b>414</b>	<b>1</b>	<b>278</b>	<b>1</b>	<b>192</b>	<b>1</b>	<b>179</b>	<b>1</b>	<b>263</b>	<b>1</b>	<b>52</b>	<b>1</b>	<b>1632</b>	<b>1</b>	<b>342</b>	<b>1</b>	<b>363</b>	<b>1</b>
				23.9		18.55%		17.35%		19.23%		12.12%		12.16%		10.58%		4.59%		11.15%		18.29%
			<b>Total congeners</b>		<b>930</b>	<b>44.5%</b>	<b>630</b>	<b>44.1%</b>	<b>420</b>	<b>45.6%</b>	<b>340</b>	<b>52.7%</b>	<b>530</b>	<b>49.7%</b>			<b>3000</b>	<b>54.4%</b>	<b>660</b>	<b>51.9%</b>	<b>750</b>	<b>48.4%</b>

PCB	PCB
52	2,2',5,5'
66	2,3',4,4'
74	2,4,4',5
105	2,3,3',4,4'
118	2,3',4,4',5
138	2,2',3,4,4',5'
153	2,2',4,4',5,5'
156	2,3,3',4,4',5
157	2,3,3',4,4',5'
180	2,2',3,4,4',5,5'
183	2,2',3,4,4',5',6
187	2,2',3,4',5,5',6
189	2,3,3',4,4',5,5'
194	2,2',3,3',4,4',5,5'
203	2,2',3,4,4',5,5',6